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L	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/767,787	01/29/2004	Kevin J. Ash	TUC920030124US1 (16972)	7287	
		7590 · · · · 12/22/200 DTT, MURPHY, & PRI		EXAM	INER	
	400 GARDEN	CITY PL	,	DINH, NGOC V ART UNIT PAPER NUMBER		
	GARDEN CIT	1, N1 11330				
				2189		
				,		
	SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE .	
	3 MO	NTHS	12/22/2006	PAF	ER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/767,787	ASH ET AL.	•
Office Action Summary	Examiner	Art Unit	
	NGOC V. DINH	2189	•
The MAILING DATE of this communication			dress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MOI atute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this co BANDONED (35 U.S.C. § 133).	
Status	•		
1)⊠ Responsive to communication(s) filed on 2	9 January 2004.		
• • • • • • • • • • • • • • • • • • • •	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal mat	ters, prosecution as to the	merits is
closed in accordance with the practice und	er <i>Ex parte Quayl</i> e, 1935 C.[). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-26</u> is/are pending in the applicat	ion.		
4a) Of the above claim(s) is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-6,10-15 and 18-23</u> is/are rejecte	ed.		
7)⊠ Claim(s) <u>7-9, 16-17, 24-26</u> is/are objected t	0.		
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10)⊠ The drawing(s) filed on 29 January 2004 is/	are: a)⊠ accepted or b)□ o	bjected to by the Examine	er.
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the cor	rection is required if the drawing	(s) is objected to. See 37 CF	R 1.121(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PT	O-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1.☐ Certified copies of the priority docum	ents have been received.		
2. Certified copies of the priority docum		Application No	
3. Copies of the certified copies of the p	priority documents have beer	received in this National S	Stage
application from the International Bu	reau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a	list of the certified copies not	received.	
			•
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 		s)/Mail Date nformal Patent Application	
Paper No(s)/Mail Date <u>01/29/2004</u> .	6) Other:	<u> </u>	

DETAILED ACTION

1. This office action is a response to the U.S. application Serial No. 10/767787 filed on 06/03/04. Claims 1-26 are presented for examination.

INFORMATION DISCLOSURE STATEMENT

2. The Applicant's submission of the IDS filed 08/11/2003 have been considered. As required by M.P.E.P. 609 C(2), a copy of the PTOL-1449 is attached to the instant office action.

Claims Objection

3. Claim 25 is object to because of the incorrect dependence. Claim 25 should depend on claim 24 instead of claim 18. There is no limitation of "Flag" in claim 18.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

4. Claims 1-6, 10-15, 18-23 are rejected under 35 U.S.C.102 (e) as being anticipated by Pasupathy US 2004/0088336.

Pasupathy teaches:

Per claims 1-2, 10-11, 18-19 a method for storing customer data at a non-volatile storage (NVS) at a storage server [fig. 1-3], comprising: initializing the NVS, prior to receiving a first/second write request at the storage server for writing first customer data to the NVS [prior to receiving the write command, allocating the virtual pool of disk blocks for the client from a server, page 3/claim 2; initial/initially, page 2/[0030]; page 3/0044]], by allocating first segments in the NVS for storing data [page 2/[0033]; page 3/[[0040]]; and in response to receiving the first write

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request, allocating second/third segments [additional, more disk block, page 2/[0029]; page 3/[0045]; page 4/claim 7] in the NVS for storing second customer data.

Per claims 3, 12, 20: maintaining a cache control block for allocating the first and second segments in the NVS [page 3/[0042]].

Per claims 4, 13, 21: maintaining a virtual track buffer for allocating the first and second segments in the NVS [page 1/[0010, 0015], virtual pool].

Per claims 5, 14, 22: the first write request is received at a cache at the storage server from a host adapter at the storage server [server file buffer cache, page 3/0040]]. A cache memory is a fast access memory and keeps copies of data and address pointers that are most likely to be accessed next by the processor. The request is sent first to the cache instead to the slow sluggish storage server.

Per claims 6, 15, 23: following commit processing of the first customer data at the NVS, the NVS prepares to use the second segments to store the second customer data for a subsequent write request [commit, acknowledgement, [page 2/[0036-0037]; page 3/[0048].

Allowable Subject Matter

5. Claims 7-9, 16-17, 24-26 are objected to as being dependent upon a rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. Any response to this action should be mailed to:

Under Secretary of Commerce for intellectual Property and Director of the United States Patent and Trademark Office
PO Box 1450
Alexandria, VA 22313-1450

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or faxed to:

(571) 273-8300, (for Official communications intended for entry)

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc Dinh whose telephone number is (571) 272-4191. The examiner can normally be reached on Monday-Friday 8:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reginald Bragdon, can be reached on (571) 272-4204.

NGOC DINH

Patent Examiner

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December 18, 2006

Reginal D. Bragdon
REGINALD BRAGDON

REGINALD BRAGDON
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100